

To: Peter Dockett Date: 12 July 2019

Company: Richard Noble Project No: RNO18292.01

AS 3959 Bushfire Attack Level (BAL) Assessment Report Lots 401, 410 & 411 Napoli Drive, Hammond Park

Site Details				
Address: Lots 401, 410 & 411 Napoli Drive				
Suburb:	Hammond Park	State:	Western Australia	
Local Government Area:	City of Cockburn			
Description of building works:	Construction of a single residential dwelling and associated Class 10a building within each of the three identified lots			

Report details			
Report/Job number:	RNO18292.01	Report reference:	RNO18292_01 M002 Rev B
Assessment date:	2/08/18 & 15/05/19	Report date:	12 July 2019
Endorsement/Review	Zac Cockerill BPAD Level 2: 37803		

Site assessment and site plan

The assessment of this site/development was undertaken on 2 August 2018 and reassessed on 15 May 2019 by a BPAD Accredited Practitioner for the purpose of determining the Bushfire Attack Level in accordance with AS 3959 - 2009 (Simplified Procedure [Method 1]).

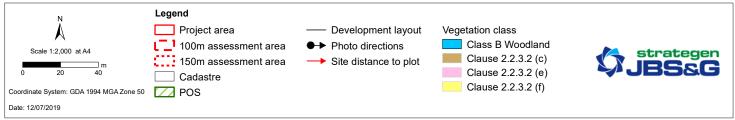
A site plan and site BAL assessment results are depicted in Figure 1.

Vegetation classification

All vegetation within 150 m of the site/development was classified in accordance with Clause 2.2.3.2 of AS 3959-2009 and the *Visual Guide for Bushfire Risk Assessment in Western Australia*. Each distinguishable vegetation class with the potential to determine the Bushfire Attack Level is identified below in Table 1 and Figure 1.



Figure 1: BAL assessment



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^{© 2019.} Whilst every care has been taken to prepare this map, Strategen JBS&G & Richard Noble & Company makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and cannot accept liability and responsibility of any kind (whether in contract, tort or otherwise) for any expenses, losses, damages and/or costs (including indirect or consequential damage) which are or may be incurred by any party as a result of the map being inaccurate, incomplete or unsuitable in any way and for any reason.

Table 1: Vegetation classification



Plot 1: Class B Woodland

Photo 1a: Retained banksia woodland to the south within Apsley site (far left of shot)



Plot 2: Excluded – Clause 2.2.3.2 [c]

Photo 2a: Retained banksia woodland cells to the south within Apsley site (multiple plots less than 0.25 ha in size and not within 20 m of the site, each other or other areas of vegetation being classified

Strategen



Plot 2: Excluded – Clause 2.2.3.2 [c]

Photo 2b:

Retained banksia woodland cells to the south within Apsley site (multiple plots less than 0.25 ha in size and not within 20 m of the site, each other or other areas of vegetation being classified



Plot 3:	Excluded – Low threat (Clause 2.2.3.2 [f])
Photo 3a:	Low threat managed road verges along Rowley Road to the south



Plot 3: Excluded – Low threat (Clause 2.2.3.2 [f])

Photo 3b: Low threat managed road verges along Rowley Road to the south



Plot 3: Excluded – Low threat (Clause 2.2.3.2 [f])

Photo 3c: Low threat managed road verges along Rowley Road to the south



Plot 3: Excluded – Low threat (Clause 2.2.3.2 [f])

Photo 3d: Low threat managed land within adjacent east stages of Vivente Estate subject to future development

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Plot 3: Excluded – Low threat (Clause 2.2.3.2 [f])

Photo 3e: Low threat managed land within adjacent east stages of Vivente Estate subject to future development



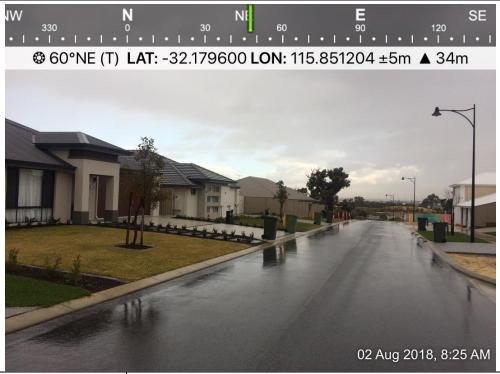
Plot 3: Excluded – Low threat (Clause 2.2.3.2 [f])

Photo 3f: Vegetation within POS to the north maintained in a low fuel state in accordance with the endorsed Bushfire Management Plan (Strategen 2015)



Plot 3: Excluded – Low threat (Clause 2.2.3.2 [f])

Photo 3g: Low threat managed entry road planting to the west



Plot 4: Excluded – Non-vegetated (Clause 2.2.3.2 [e])
Photo 4a: Non-vegetated areas occupied by roads and built form



Plot 4: Excluded – Non-vegetated (Clause 2.2.3.2 [e])

Photo 4b: Non-vegetated areas occupied by roads and built form



Plot 4:	Excluded – Non-vegetated (Clause 2.2.3.2 [e])
Photo 4c:	Non-vegetated areas occupied by roads and built form



Plot 4:	Excluded – Non-vegetated (Clause 2.2.3.2 [e])
Photo 4d:	Non-vegetated areas occupied by roads and built form

Relevant Fire Danger Index

The fire danger index for this site/development has been determined in accordance with Table 2.1 of AS 3959–2009 or otherwise determined in accordance with a jurisdictional variation applicable to the site.

Fire Danger Index			
FDI 40 🗌	FDI 50	FDI 80 🔀	FDI 100 🗌
Table 2.4.5	Table 2.4.4	Table 2.4.3	Table 2.4.2

Potential bushfire impacts

The potential bushfire impact to the site/development from each of the identified vegetation plots are identified in Table 2 to Table 4.

Table 2: BAL analysis (Lot 401)

Plot	Vegetation classification	Calculation method	Effective slope	Separation (m)	BAL
1	Class B Woodland	Method 1	Downslope (>0°-5°)	170.6 m	BAL-Low
2	Excluded – Clause 2.2.3.2 [c]	Method 1	N/A	N/A	BAL-Low
3	Excluded – Low threat (Clause 2.2.3.2 [f])	Method 1	N/A	N/A	BAL-Low
4	Excluded – Non-vegetated (Clause 2.2.3.2 [e])	Method 1	N/A	N/A	BAL-Low

Table 3: BAL analysis (Lot 410)

Plot	Vegetation classification	Calculation method	Effective slope	Separation (m)	BAL
1	Class B Woodland	Method 1	Downslope (>0°-5°)	158.2 m	BAL-Low
2	Excluded – Clause 2.2.3.2 [c]	Method 1	N/A	N/A	BAL-Low
3	Excluded – Low threat (Clause 2.2.3.2 [f])	Method 1	N/A	N/A	BAL-Low
4	Excluded – Non-vegetated (Clause 2.2.3.2 [e])	Method 1	N/A	N/A	BAL-Low

Table 4: BAL analysis (Lot 411)

Plot	Vegetation classification	Calculation method	Effective slope	Separation (m)	BAL
1	Class B Woodland	Method 1	Downslope (>0°-5°)	144.6 m	BAL-Low
2	Excluded – Clause 2.2.3.2 [c]	Method 1	N/A	N/A	BAL-Low
3	Excluded – Low threat (Clause 2.2.3.2 [f])	Method 1	N/A	N/A	BAL-Low
4	Excluded – Non-vegetated (Clause 2.2.3.2 [e])	Method 1	N/A	N/A	BAL-Low

Determined Bushfire Attack Level

The Determined Bushfire Attack Level (highest BAL) for the site / proposed development has been determined in accordance with Clause 2.2.6 (Simplified Procedure [Method 1]) of AS 3959-2009 using the above analysis.

Determined Bushfire Attack Level		
Lot 401	BAL-Low	
Lot 410	BAL-Low	
Lot 411	BAL-Low	

